




ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention	Method for Resolving Address Space Conflicts Between a Virtual Machine Monitor and a Guest Operating System																																																								
<p>Application Number: 10/676737 </p> <p>Confirmation Number: 7965</p> <p>First Named Applicant: Richard Uhlig</p> <p>Attorney Docket Number: 42P09768C</p> <p>Art Unit: 2187</p> <p>Examiner: Kathy Takeguchi R. Elmore</p> <p>Search string: (20030018892 or 4162536 or 4276594 or 4307447 or 4319323 or 4759064 or 4795893 or 4825052 or 4907270 or 4907272 or 4910774 or 5007082 or 5317705 or 5434999 or 5442645 or 5459867 or 5504922 or 5528231 or 5533126 or 5564040 or 5566323 or 5582717 or 5606617 or 5720609 or 5721222 or 5796835 or 5825875 or 5835594 or 5867577 or 5900606 or 5901225 or 5903752 or 5970147 or 6061794 or 6092095 or 6115816 or 6173417 or 6212635 or 6222923 or 6252650 or 6269392 or 6308270 or 6330670 or 6357004 or 6363485 or 6374286 or 6378068 or 6378072 or 6389537 or 6412035 or 6421702 or 6435416 or 6445797 or 6463535 or 6463537 or 6507904 or 6535988 or 6557104 or 6633963 or 6633981).pn.</p>																																																									
<h3>US Patent Documents</h3> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>20030018892</td><td>2003-01-23</td><td>Tello, Jose</td><td></td><td>713</td><td>164</td></tr><tr><td></td><td>2</td><td>4162536</td><td>1979-07-24</td><td>Morley, Richard E.</td><td></td><td>714</td><td>18</td></tr><tr><td></td><td>3</td><td>4276594</td><td>1981-06-30</td><td>Morley, Richard E.</td><td></td><td>713</td><td>600</td></tr><tr><td></td><td>4</td><td>4307447</td><td>1981-12-22</td><td>Provanzano, Salvatore R., et al.</td><td></td><td>700</td><td>1</td></tr><tr><td></td><td>5</td><td>4319323</td><td>1982-03-09</td><td>Ermolovich, Thomas R., et al.</td><td></td><td>711</td><td>100</td></tr><tr><td></td><td>6</td><td>4759064</td><td>1988-07-19</td><td>Chaum,</td><td></td><td>380</td><td>30</td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	20030018892	2003-01-23	Tello, Jose		713	164		2	4162536	1979-07-24	Morley, Richard E.		714	18		3	4276594	1981-06-30	Morley, Richard E.		713	600		4	4307447	1981-12-22	Provanzano, Salvatore R., et al.		700	1		5	4319323	1982-03-09	Ermolovich, Thomas R., et al.		711	100		6	4759064	1988-07-19	Chaum,		380	30
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass																																																		
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	6	4759064	1988-07-19	Chaum,		380	30																																																		

7	4795893	1989-01-03	Ugon, Michael	235	382
8	4825052	1989-04-25	Chemin, Francois , et al.	235	380
9	4907270	1990-03-06	Hazard, Michel	713	181
10	4907272	1990-03-06	Hazard, Michel	705	65
11	4910774	1990-03-20	Barakat, Simon	705	67
12	5007082	1991-04-09	Cummins, Mary T.	713	164
13	5317705	1994-05-31	Gannon, Patrick M., et al.		
14	5434999	1995-07-18	Goire, Christian , et al.	717	167
15	5442645	1995-08-15	Ugon, Michel , et al.	714	736
16	5459867	1995-10-17	Adams, Phillip M., et al.	719	321
17	5504922	1996-04-02	Seki, Yukihiro , et al.	703	25
18	5528231	1996-06-18	Patarin, Jacques	340	5.8
19	5533126	1996-07-02	Hazard, Michel , et al.	713	187
20	5564040	1996-10-08	Kubals, Jeffrey P.	711	173
21	5566323	1996-10-15	Ugon, Michel	711	154
22	5582717	1996-12-10	Di Santo, Dennis E.	210	86
23	5606617	1997-02-25	Brands, Stefanus A.	380	30
24	5720609	1998-02-24	Pfefferle, William C.	431	326
25	5721222	1998-02-24	Bernstein, Peter R., et al.	514	89
26	5796835	1998-08-18	Saada, Charles	713	172
27	5825875	1998-10-20	Ugon, Michel	705	66
28	5835594	1998-11-10	Albrecht, Mark , et al.	713	187
29	5867577	1999-02-02	Patarin, Jacques	705	67
30	5900606	1999-05-04	Rigal, Vincent	235	375
31	5901225	1999-05-04	Ireton, Mark A., et al.	714	7
32	5903752	1999-05-11	Dingwall, Thomas J., et al.	718	103
33	5970147	1999-10-19	Davis, Derek L., et al.	713	172
34	6061794	2000-05-09	Angelo, Michael E.	713	200
35	6092095	2000-07-18	Maytal, Benjamin	718	100
36	6115816	2000-09-05	Davis, Derek L.	713	153
37	6173417	2001-01-09	Merrill, John W.	714	15
38	6212635	2001-04-03	Reardon, David C.	713	165
39	6222923	2001-04-24	Schwenk, Joerg	380	44
40	6252650	2001-06-26	Nakaumra, Kouji	355	69
41	6269392	2001-07-31	Cotichini, Christian , et al.	709	200
42	6308270	2001-10-23	Guthery, Scott B., et al.	713	200

43	6330670	2001-12-11	England, Paul , et al.	713	2
44	6357004	2002-03-12	Davis, Derek L.	713	100
45	6363485	2002-03-26	Adams, Carlisle	713	186
46	6374286	2002-04-16	Gee, John K., et al.	718	108
47	6378068	2002-04-23	Foster, Mark J.	713	1
48	6378072	2002-04-23	Collins, Thomas , et al.	713	187
49	6389537	2002-05-14	Davis, Derek L., et al.	713	187
50	6412035	2002-06-25	Webber, Victor	710	261
51	6421702	2002-07-16	Gulick, Dale E.	718	102
52	6435416	2002-08-20	Slassi, Tarik	235	492
53	6445797	2002-09-03	McGough, Paul , et al.	380	285
54	6463535	2002-10-08	Drews, Paul C., et al.	713	176
55	6463537	2002-10-08	Tello, Jose A.	713	182
56	6507904	2003-01-14	Ellison, Carl M., et al.	712	229
57	6535988	2003-03-18	Poisner, David L.	713	500
58	6557104	2003-04-29	Vu, Son T., et al.	713	189
59	6633963	2003-10-14	Ellison, Carl M., et al.	711	163
60	6633981	2003-10-14	Davis, Derek L.	713	189

Remarks

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Applicants, in accordance with their duty of disclosure under 37 CFR 1.56 and in accordance with 37 CFR 1.97(b)(3), hereby submit this Electronic Information Disclosure Statement citing U.S. Patent Documents for consideration by the Examiner. Pursuant to 37 CFR 1.97, the submission of this Electronic Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability. This Electronic Information Disclosure Statement is being filed prior to a substantive examination of the claims. Pursuant to 37 CFR 1.97(b), no fee should be required for the filing of this Electronic Information Disclosure Statement. In the event it is determined that a fee is due, please charge the fee to Deposit Account 02-2666. Applicants respectfully request that the cited documents be considered and that the form be initialed by the Examiner to indicate such consideration and a copy thereof be returned to Applicants' attorney of record.

Signature

Examiner Name	Date
R. Elmoe	4-16-2005

RIE
4-27-05
Page 3 of 3

Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 042390.P9768	Application Number: 09/1752,587 10/676737
Page 1 of 2-1 <i>R/E</i> <i>4-27-05</i>		First Named Inventor: Richard Uhlig, et al.	
		Filing Date: December 27, 2000	

U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code ²	Kind (If known)			

FOREIGN PATENT DOCUMENTS								
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		Office ³ Code ⁵	Number ⁴	Kind (If known)				

OTHER ART - NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation ²
<i>R/E</i>		HEINRICH, J., "MIPS R4000 Microprocessor User's Manual," Chapter 4, Memory Management, pages 61-97. 1993	

Examiner Signature <i>R. Elmore</i>	Date Considered <i>4-16-05</i>
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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 042390.P9768		Application Number: 09/752,587 10/676737		
Page 1 of 2		First Named Inventor: Richard Uhlig, et al.				
		Filing Date: December 27, 2000				
U.S. PATENT DOCUMENTS						
Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code ²	Kind (If known)			
R1E		5,455,909		James S. Blomgren, et al.	10-03-1995	

FOREIGN PATENT DOCUMENTS								
Exam. Initial*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³ Code ³	Number ⁴	Kind (If known)				
R1E			EP0600112	A1	Siemens Nixdorf Information System	06-08-1994		X Abstract only
R1E			EP0930567	A3	Texas Instruments, Inc.	07-21-1999		
R1E			EP1146715	A1	ContentGuard Holdings, Inc.	10-17-2001		
R1E			WO 98/34365		AT & T Corporation	08-06-1998		
R1E			WO 98/44402		British Telecommunications Public Limited Company	10-08-1998		
R1E			WO 99/05600		Apple Computer, Inc.	02-04-1999		
R1E			WO 99/09482		Siemens Nixdorf Information System	02-25-1999		X Abstract only
R1E			WO 99/57863		International Business Machines Corp.	11-11-1999		
R1E			WO 00/62232		Digital Media On Demand, Inc.	10-19-2000		

Examiner Signature	R. ELMORE	Date Considered	4-16-05
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¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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Page 2 of 2		First Named Inventor: Richard Uhlig, et al.	
		Filing Date: December 27, 2000	
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RIE		BERG, Cliff, "How Do I Create A Signed Applet?" Dr. Dobb's Journal, August 1997, pages 1-9	
RIE		GOLDBERG, Robert P., "Survey of Virtual Machine Research," IEEE Computer Magazine Vol. 7, No. 6, pages 34-45, 1974	
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RIE		GUM, P.H., "System/370 Extended Architecture: Facilities for Virtual Machines," IBM J. Research Development, Vol. 27, No. 6, pages 530-544, November 1983	
RIE		HEINRICH, J., "MIPS R4000 Microprocessor User's Manual," Second Edition, Chapter 4: Memory Management, pages 67-79	
RIE		INTEL CORPORATION, Intel386™ DX Microprocessor, 32-Bit CMOS Microprocessor With Integrated Memory Management, 56 pages, December 1995	
RIE		LAWTON, K., "Running Multiple Operation Systems Concurrently On An IA32 PC Using Virtualization Techniques," http://www.plex86.org/research/paper.txt , pp 1-31, downloaded August 9, 2001	
RIE		MOTOROLA, M68040 User's Manual (Including the MC68040, MC68040V, MC68LC040, MC68EC040, and MC68EC040V), Revised 1993	
RIE		ROSENBLUM, M., "VMware's Virtual Platform™ A Virtual Machine Monitor for Commodity PCs," Proceedings of the 11th Hotchips Conference, Stanford University Palo Alto, California, pages 185-196, August 1999	

Examiner Signature <i>R. Elmore</i>	Date Considered 4-16-05
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/676,737
Filing Date	September 30, 2003
First Named Inventor	Uhlig, Richard
Group Art Unit	2187
Examiner Name	Takeguchi, Kathy R. Elmore

Sheet 1 of 1

Attorney Docket No: 42P09768C

US PATENT DOCUMENTS

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Foreign Document No	Publication Date	Name of Patentee or Applicant of cited Document	Class	Subclass	T ²
RIE	DE-DE4217444	12/03/1992	Toyohisa, Imada, et al.			
RIE	EP-EP0473913	03/11/1992	Farrell, Joel A.			
RIE	WO-WO0175595	10/11/2001	Ellison, Carl M., et al.			

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
RIE		BRANDS, STEFAN, "Restrictive Blinding of Secret-Key Certificates", SPRINGER-VERLAG XP002201306, (1995), Chapter 3	
RIE		DAVIDA, GEORGE I., et al., "Defending Systems Against Viruses through Cryptographic Authentication", Proceedings of the Symposium on Security and Privacy, IEEE Comp. Soc. Press, ISBN 0-8186-1939-2, (May 1989),	
RIE		INTEL, "IA-32 Intel Architecture Software Developer's Manual", Volume 3: System Programming Guide, Intel Corporation - 2003, 13-1 through 13-24	
RIE		KASHIWAGI, KAZUHIKO, et al., "Design and Implementation of Dynamically Reconstructing System Software", Software Engineering Conference, Proceedings 1996 Asia-Pacific Seoul, South Korea 4-7 Dec. 1996, Los Alamitos, CA USA, IEEE Comput. Soc. US, ISBN 0-8186-7638-8, (1996),	
RIE		LUKE, JAHN, et al., "Replacement Strategy for Aging Avionics Computers", IEEE AES Systems Magazine, XP002190614, (March 1999),	
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RIE		SAEZ, SERGIO, et al., "A Hardware Scheduler for Complex Real-Time Systems", Proceedings of the IEEE International Symposium on Industrial Electronics, XP002190615, (July 1999), 43-48	
RIE		SHERWOOD, TIMOTHY, et al., "Patchable Instruction ROM Architecture", Department of Computer Science and Engineering, University of California, San Diego, La Jolla, CA, (Nov. 2001),	

EXAMINER

R. Elmore

DATE CONSIDERED

4-16-05

Substitute for Form 1449A/PTO (Modified)
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number	10/676,737
Filing Date	9/30/03
First Named Inventor:	Richard Uhlig, et al.
Group Art Unit	Unassigned 2187
Examiner Name	Unassigned R. Elmore
Attorney Docket Number	42P9768C

Sh et 1 of 3

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R. ELMORE

4-16-05

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Substitute for Form 1449A/PTO (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known		
				Application Number	09/752,587 10 / 676 737	
				Filing Date	December 27, 2000	
				First Named Inventor:	Gilbert Neiger, et al.	
				Group Art Unit	2187	
Examiner Name	Takeguchi, K. R. Elmore					
She t	1	of	1	Attorney Docket Number	042390.P9768	
U.S. PATENT DOCUMENTS						
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RIE		5,437,033		Inoue, Taro, et al.	07-25-1995	
RIE		5,737,604		Miller, David A., et al.	04-07-1998	

FOREIGN PATENT DOCUMENTS								
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		Office ³	Number ⁴	Kind Code ⁵ (If known)				
RIE			WO 02 17555	A	Verisign, Inc.	02/28/2002		
RIE			WO 01 75564	A	Intel Corporation	10/11/2001		
RIE			WO 02 086684	A	Hewlett Packard	10/31/2002		

OTHER ART - NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
RIE		KARGER, PAUL A., et al., "A VMM Security Kernel for the VAX Architecture," Proceedings of the Symposium on Research in Security and Privacy, 5/7/1990, pp. 2-19, XP010020182, ISBN: 0-8186-2060-9, Boxborough, MA.	
RIE		CHIEN, ANDREW A., et al., "Safe and Protected Execution for the Morph/AMRM Reconfigurable Processor," 7th Annual IEEE Symposium, FCCM '99 Proceedings 4/21/1999, pp. 209-221, XP010359180, ISBN: 0-7695-0375-6, Los Alamitos, CA.	
RIE		ROBIN, JOHN SCOTT and IRVINE, CYNTHIA E., "Analysis of the Pentium's Ability to Support a Secure Virtual Machine Monitor," Proceedings of the 9th USENIX Security Symposium, 8/14/2000, pp. 1-17, XP002247347, Denver, CO.	
		PCT Search Report dated 7/29/03 (U.S. Patent No. '075 Previously cited).	

Examiner Signature	R. Elmore	Date Considered	4-16-05
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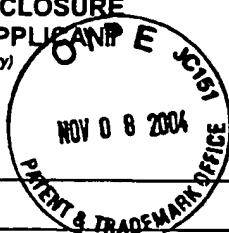
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Application Number	10/676,737
Filing Date	September 30, 2003
First Named Inventor	Neiger, Gilbert
Group Art Unit	2186-2187
Examiner Name	Not yet assigned R. ELMORE

Sheet 1 of 5

Attorney Docket No: 042390.P9768C

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EXAMINER R. ELMORE

DATE CONSIDERED 4-16-05

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Application Number	10/676,737
Filing Date	September 30, 2003
First Named Inventor	Neiger, Gilbert
Group Art Unit	2186 2187
Examiner Name	Not yet assigned R. ELMORE

Sheet 2 of 5

Attorney Docket No: 042390.P9768C

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Application Number	10/676,737
Filing Date	September 30, 2003
First Named Inventor	Neiger, Gilbert
Group Art Unit	2186 2187
Examiner Name	Not yet assigned R. Elmore

Sheet 3 of 5

Attorney Docket No: 042390.P9768C

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Application Number	10/676,737
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Group Art Unit	2186 2187
Examiner Name	Not yet assigned R. Elmore

Sheet 4 of 5

Attorney Docket No: 042390.P9768C

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Application Number	10/676,737
Filing Date	September 30, 2003
First Named Inventor	Neiger, Gilbert
Group Art Unit	2185 2187
Examiner Name	Not yet assigned R. Elmore

Sheet 5 of 5

Attorney Docket No: 042390.P9768C

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
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Substitute Disclosure Statement Form (PTO-1449)

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Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)	Attorney Docket No.: 042390.P9768	Application Number: 09/752,587 10/676 737
Page 1 of 2	First Named Inventor: Richard Uhlig, et al.	
	Filing Date: December 27, 2000	

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Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 042390.P9768	Application Number: 09/752,587 10/67673
Page 2 of 2		First Named Inventor: Richard Uhlig, et al.	
		Filing Date: December 27, 2000	
OTHER ART - NO PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation ²
RIE		IBM Technical Disclosure Bulletin, "Information Display Technique For A Terminate Stay Resident Program," Vol. 34, Issue No. 7A, Pages 156-158, December 1, 1991.	

Examiner Signature	<i>R. Elmore</i>	Date Considered	4-16-05
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Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)	Attorney Docket No.: 42390.P9768	Application Number: 09/752,587 10/676737
Page 1 of 3	First Named Inventor: Gilbert Neiger, et al.	
	Filing Date: December 27, 2000	

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Exam. Initial*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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R1E			WO 01/27821	A2	Hewlett Packard Company	04-19-2001		

Examiner Signature	R. Elmore	Date Considered	4-16-05
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Page 2 of 3			First Named Inventor: Gilbert Neiger, et al.			
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Examiner Signature	<i>R. ELMORE</i>	Date Considered	4-6-05
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Page 3 of 3	First Named Inventor: Gilbert Neiger, et al.	
	Filing Date: December 27, 2000	

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